

# Implementation and adoption of standards for the global geospatial information community

## Item 8

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Open Geospatial Consortium

4<sup>th</sup> Session

7 August 2014



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United Nations Initiative on  
Global Geospatial Information Management

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# UN-GGIM and International Standards



New York,  
13-15 August 2012  
Second session of the  
UN Committee of Experts on  
Global Geospatial  
Information Management

2/103

**Inventory of issues to be addressed by the  
UN-GGIM Committee of Experts**

**Concept proposed**

Suggestion by Technical Committee 211 (geomatics and geographic information) of the International Organization for Standardization (ISO/TC211) to put forward, jointly with the Open Geospatial Consortium (OGC) and the International Hydrographic Organization (IHO), a paper related to standard-setting issues in the international community



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# UN-GGIM and International Standards



**Draft report submitted**

**Second High Level Forum on Global Geospatial Information Management**

Qatar National Convention Centre, Doha, Qatar, 4-6 February 2013



**Full report**

**Third Session of UN-GGIM Committee of Experts**

Cambridge, UK, 24-27 July 2013



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# Existing Standards and the Inventory of Issues

	UN-GGIM issue	Number of standards		
		ISO	OGC	IHO
(a)	Developing a national, regional and global strategic framework for geospatial information	6	5	1
(b)	Establishing institutional arrangements and legal and common frameworks	5	2	7
(c)	Building capability and capacity, especially in developing countries	5	2	2
(d)	Assuring the quality of geospatial information	7	6	8
(e)	Promoting data sharing, accessibility and dissemination	63	24	15
(f)	Embracing trends in information technology	20	18	3
(g)	Promoting geospatial advocacy and awareness	-	4	2
(h)	Working in partnership with civil society and the private sector	-	-	-
(i)	Linking geospatial information to statistics	7	6	-



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# 3<sup>rd</sup> Meeting of UNGGIM - Cambridge

**3/106**

## **Establishment and implementation of standards for the global geospatial information community**

The Committee of Experts:

(a) Welcomed the report of and the work done by the International Organization for Standardization 211 (ISO/TC 211), the Open Geospatial Consortium and the International Hydrographic Organization on the establishment and implementation of standards for the global geospatial information community,\* and noted the close degree of cooperation between these organizations;

(b) Stressed the importance of standards for effective data-sharing and the need for the full involvement of Member States in the development and maintenance of standards;

(c) Emphasized the importance of implementing and adopting standards within national legal and policy frameworks, and noted the need for developing countries to receive support from the standardization bodies in these efforts;

(d) Requested the Secretariat to continue its work with the standardization bodies and Member States and to report back to the Committee in the future.



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# UN-GGIM and International Standards

Two formal guide documents submitted to UN-GGIM4 and a complementary paper:

- A guide to the role of standards in geospatial information management. Authored by OGC, ISO, and IHO
- Companion document on standards recommendations by tier. Authored by OGC, ISO, and IHO
- National Mapping Authority Perspective: International Geospatial Standards – Authored by Ordnance Survey and INEGI, Mexico



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# National Mapping Authority Perspective: International Geospatial Standards

- Why the paper?
  - The paper has been authored to provide a non-technical view of international standards
  - It provides examples and best practice of how National Mapping Authorities are using international standards.
- Who has contributed?
  - The paper has been authored by Ordnance Survey Great Britain and INEGI Mexico.



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# UN-GGIM and International Standards

## “The Guide” and “The Companion Document”



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# Purpose

- Articulate the critical role of standards in geospatial information management;
- Inform policy makers and program managers in Member States of the value in using and investing in geospatial standardization; and
- Describe the benefits of using “open” geospatial standards to achieve standardization, data sharing, and interoperability goals.
- **To help everyone better understand what standards to use, when and why.**



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# What, Why & How

What is a Standard?

Why are Standards important?

What is an “open standard”?

Why are Open Standards valuable?

How are standards developed?



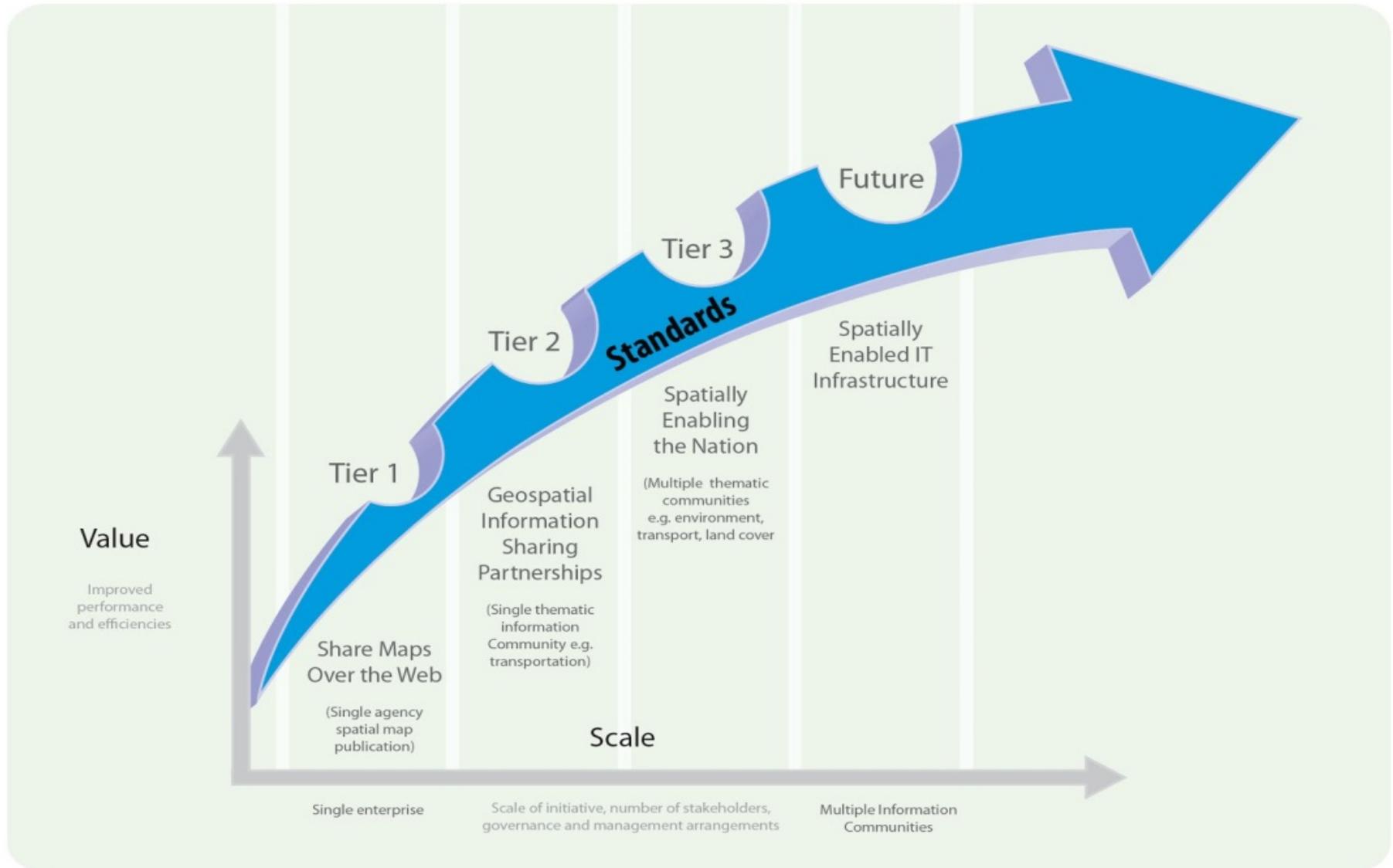
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# SDI Standardisation Maturity Model



# The Companion Document

- describes which standards should be considered in each Tier of the maturity model
- general IT & Internet Standards
- Foundation Geospatial Standards



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# Co-operation

ISO/TC 211, OGC and IHO have been formally – and practically - co-operating since 1994.

They also benefit from a range of people working actively in across organizations.



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# We are here for you!

- Many of you are members of the SDOs
  - through your organizations
  - through your national standards organizations
- More of you are encouraged to participate

***Help us to help you!  
We are here to serve you  
and your community's need!***



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# Points for discussion and decision

Recommending “The Guide” and “Companion Document” as methodological guidelines of the UNGGIM to assist Member States in implementing and adopting geospatial standards.

Encourage Member States to adopt and implement the available standards and to work in cooperation with the international standard development organizations, including the participation in activities to be organized by OGC, ISO TC/211 and IHO



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Thank you



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